Black Pearl BP2 is specially developed for use in the film industry and xR applications. Featuring in large-scale film projects, such as *The Mandalorian* and *Westworld*, its features have been adapted based on extensive testing and industry partners’ feedback.

Creating the right canvas for virtual production is not just building any LED screen. It’s where the LED panel, processing, and camera work together, complement and strengthen each other that real stunning results are achieved. ROE Visual Black Pearl has proven to be the right product for the job.

The BP2 V2 offers the trusted performance of the BP2 in an updated version with high-speed components. It results in an identical perfect in-camera performance as the BP2, adding quicker and easier camera set up and handling.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>BP2 V1</th>
<th>BP2 V2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pixel Pitch</strong></td>
<td>2.84mm</td>
<td>2.84mm</td>
</tr>
<tr>
<td><strong>Max Brightness</strong></td>
<td>1500nits</td>
<td>1500nits</td>
</tr>
<tr>
<td><strong>Panel Dimension</strong></td>
<td>500mm x 500mm x 90mm</td>
<td>500mm x 500mm x 90mm</td>
</tr>
<tr>
<td><strong>Panel Resolution (H x V)</strong></td>
<td>176 x 176</td>
<td>176 x 176</td>
</tr>
<tr>
<td><strong>Panel Weight</strong></td>
<td>9.35kg; 20.61lbs</td>
<td>9.35kg; 20.61lbs</td>
</tr>
<tr>
<td><strong>Power Consumption Max / Average</strong></td>
<td>160W / 80W</td>
<td>190W / 95W</td>
</tr>
<tr>
<td><strong>BTU Max / Average</strong></td>
<td>550 / 250</td>
<td>630 / 300</td>
</tr>
<tr>
<td><strong>Transparency</strong></td>
<td>Solid</td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Serviceability</strong></td>
<td>Front</td>
<td>Front</td>
</tr>
<tr>
<td>**Max. Hanging (panels) **</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>**Max. Stacking (panels) **</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td><strong>LED Configuration</strong></td>
<td>SMD 1515 Black</td>
<td>SMD 1515 Black</td>
</tr>
<tr>
<td><strong>Viewing Angle Horizontal</strong></td>
<td>140°</td>
<td>140°</td>
</tr>
<tr>
<td><strong>Viewing Angle Vertical</strong></td>
<td>140°</td>
<td>140°</td>
</tr>
<tr>
<td><strong>Scan Ratio</strong></td>
<td>1/11</td>
<td>1/8</td>
</tr>
<tr>
<td><strong>Refresh Rate</strong></td>
<td>3840Hz</td>
<td>7680Hz</td>
</tr>
<tr>
<td><strong>Gray Scale</strong></td>
<td>14bit</td>
<td>16bit</td>
</tr>
<tr>
<td><strong>Frame Material</strong></td>
<td>Magnesium Alloy</td>
<td>Magnesium Alloy</td>
</tr>
<tr>
<td><strong>Processing Platform</strong></td>
<td>Brompton / Evision / MVR</td>
<td>MVR / Brompton</td>
</tr>
<tr>
<td><strong>Operational Temp / Humidity</strong></td>
<td>-20°<del>45°C, 10</del>90%RH</td>
<td>-20°<del>45°C, 10</del>90%RH</td>
</tr>
<tr>
<td><strong>Storage Temp / Humidity</strong></td>
<td>-40°<del>60°C, 10</del>90%RH</td>
<td>-40°<del>60°C, 10</del>90%RH</td>
</tr>
<tr>
<td><strong>IP Rating</strong></td>
<td>Indoor</td>
<td>Indoor</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>CE, ETL, FCC</td>
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</tr>
</tbody>
</table>

*Note: The Specifications are for reference, actual values may vary.*

1. The max. hanging amount is only valid when the ROE Visual hanging bar and complementary accessories are used and in an indoor setting. In an outdoor setting, no climbing is allowed.
2. The max. stacking amount is only valid when the ROE Visual stacking system and complementary accessories are used, without ballast is applied and in indoor situation. No climbing is allowed.

### Dimensions

[Image of a 3D model of a Black Pearl BP2 with dimensions provided]
Premier Choice LED for Virtual Production.

ROE Visual LED panels prove to be the ideal solution and canvas to portray to sets and backgrounds created in virtual reality.

Superb Visuals and Perfect In-camera Behaviour

True-to-content effects are created with high refresh rates, outstanding color processing and great contrast ratios.

ROE Visual LED screens work with high-end components and state of the art driver IC's, making all the difference for the in-camera performance.

Fast and Easy Set-up

The integrated magnet-assisted assembly, LED protection and smart lock system allow for automatic positioning and efficient installation. These features guarantee optimum panel protection during build and break.

Easy Installation

Due to its stacking, hanging and curved installation options, the Black Pearl LED panels offer flexible installation solutions. Through concave or convex curving a larger field of view and a more immersive experience can be created.

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